Knowing paper better!

Since 1992 Partner of Paper Industry
Since 1996 Partner of Printing Industry

Innovation and Competence
Development, Manufacturing and Sales

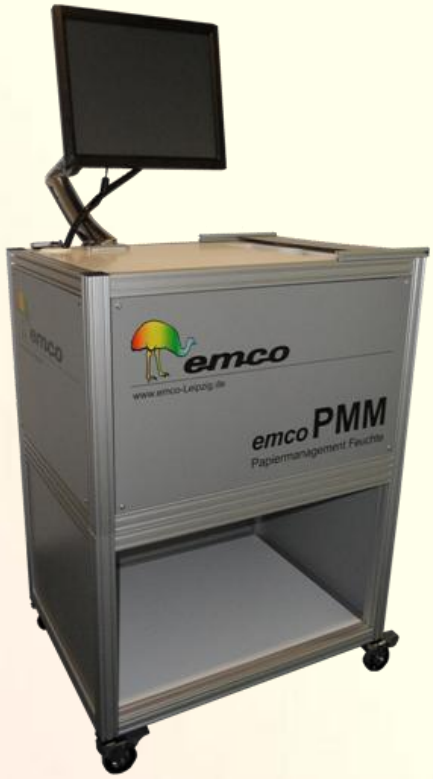
emco PMM - Moisture

Paper Management - Moisture

Job-related determination of the equilibrium moisture content in printing products - the main way to reduce costs and to product quality

The *emco* PMM - Moisture as a modular part of the *emco* Paper Management is an equipment system for job-related determination of the equilibrium moisture content in printed media and documentation in a database. In printing technologies such as heatset, wherein the moisture content of paper is extremely lowered in the dryer, the setting of optimum moisture by re-wetting is the technological challenge.

The moisture content influences the nature of the paper, all process properties and settings.



- Equilibrium moisture GGF in the paper as a target, actual and their deviation
- Dewpoint and Cockling temperatur for storage and transport conditions
- Monitoring of the environment (temperature, humidity, air pressure)
- Recording of the weight of the printed product
- Database for process optimization and control, documentation and knowledge acquisition
- Development of sensitivity for the moisture depending nature of the paper

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Construction and Function

Design and operation follow the demand of easy use by the printing staff. The measurement starts automatically with laying of the print copy. The job data can be entered and verified by the help of the user-friendly touch screen. The measured values are automatically transferred into the device's internal database or existing data management systems of the company.
The evaluation of the results is visible in the color code with a recommendation to increase or decrease the re-wetting:

- Yellow: too dry,
- Green: target achieved,
- Blue: too moist.

The robust design fits into the series of control consoles and offers at the bottom of the device sufficient space for the storage of the specimen copies.

Technical data

Measuring range humidity:	1 - 100 % rH
Resolution display:	0.1 % rH
Accuracy (25 °C ± 2 K):	± 1.8 % rH in the range of 20 - 80 % rH
Hysteresis:	± 1 % rH
Range GGF:	0.1 - 10 da% rH (calculated)
Resolution display:	0.1 da% rH
Measuring range temperature:	-10 - 60 °C
Resolution display:	0.1 °C
Accuracy (25 °C):	± 0.3 K, ± 1 K in the range of -20 - 60 °C
Dew point temperature:	calculated
Cockling temperature:	calculated
Resolution display:	0.1 °C
Measuring range weight:	0 – 2000 g
Resolution display:	0.01 g
Reproducibility:	0.01 g
Operating temperature:	10 - 40 °C
Storage temperature:	0 - 40 °C
Power supply:	220 V
Dimension:	800 x 600 x 1700 mm³
Weight:	appr. 55 kg

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